***CLASS COPY – DO NOT WRITE ON***

HW 15: SLOPES of Parallel + Perpendicular Lines

**Geometry**

1. A rectangle is formed by 4 intersecting lines. Two of the adjacent sides are defined by the equations and . Determine the equations of the other two sides of the rectangle. Remember: *A rectangle is made up of two pairs of opposite sides that are parallel and congruent, with 4 right angles.*
2. Write an equation of the line that passes through point P and is perpendicular to the line with the given equation and .
3. Create a **right triangle** that has a vertex of . Determine the equations that would define the three sides of the **right triangle.** *(Your answer should include a graph, along with three linear equations).*

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